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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS	3	OCT 07	EPFULL enhanced with full implementation of EPC2000
NEWS	4	OCT 07	Multiple databases enhanced for more flexible patent number searching
NEWS	5	OCT 22	Current-awareness alert (SDI) setup and editing enhanced
NEWS	6	OCT 22	WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT Applications
NEWS	7	OCT 24	CHEMLIST enhanced with intermediate list of pre-registered REACH substances
NEWS	8	NOV 21	CAS patent coverage to include exemplified prophetic substances identified in English-, French-, German-, and Japanese-language basic patents from 2004-present
NEWS	9	NOV 26	MARPAT enhanced with FSORT command
NEWS	10	NOV 26	MEDLINE year-end processing temporarily halts availability of new fully-indexed citations
NEWS	11	NOV 26	CHEMSAFE now available on STN Easy
NEWS	12	NOV 26	Two new SET commands increase convenience of STN searching
NEWS	13	DEC 01	ChemPort single article sales feature unavailable
NEWS	14	DEC 12	GBFULL now offers single source for full-text coverage of complete UK patent families
NEWS	15	DEC 17	Fifty-one pharmaceutical ingredients added to PS

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 11:03:53 ON 20 DEC 2008

=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                           ENTRY   SESSION
FULL ESTIMATED COST   0.21   0.21

FILE 'REGISTRY' ENTERED AT 11:04:06 ON 20 DEC 2008
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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 19 DEC 2008 HIGHEST RN 1087349-26-5
DICTIONARY FILE UPDATES: 19 DEC 2008 HIGHEST RN 1087349-26-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
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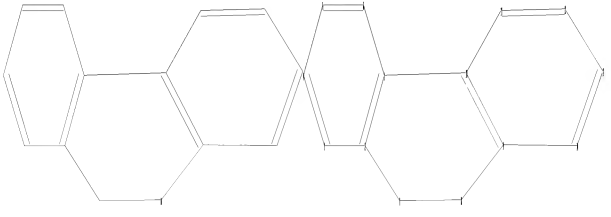


ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14
ring bonds :
1-2 1-6 1-10 2-3 2-7 3-4 4-5 5-6 7-8 8-9 9-10 9-14 10-11 11-12 12-13
13-14

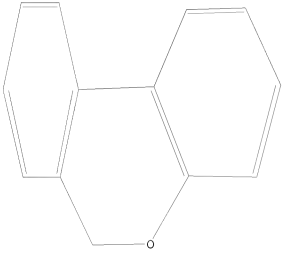
10574563.trn

exact/norm bonds :
1-10 2-7 7-8 8-9
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-14 10-11 11-12 12-13 13-14

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> l1
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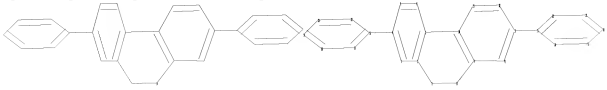
SAMPLE SCREEN SEARCH COMPLETED - 33200 TO ITERATE

6.0% PROCESSED 2000 ITERATIONS 38 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 653103 TO 674897
PROJECTED ANSWERS: 11110 TO 14122

L2 38 SEA SSS SAM L1

=>
Uploading C:\Program Files\Stnexp\Queries\10574563\Struc 2.str



ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26
chain bonds :
4-16 13-15
ring bonds :
1-2 1-6 1-10 2-3 2-7 3-4 4-5 5-6 7-8 8-9 9-10 9-14 10-11 11-12 12-13
13-14 15-22 15-26 16-17 16-21 17-18 18-19 19-20 20-21 22-23 23-24 24-25
25-26
exact/norm bonds :
1-10 2-7 7-8 8-9
exact bonds :
4-16 13-15
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-14 10-11 11-12 12-13 13-14 15-22 15-26
16-17 16-21 17-18 18-19 19-20 20-21 22-23 23-24 24-25 25-26

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom

L3 STRUCTURE UPLOADED

=> d
L3 HAS NO ANSWERS
L3 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> 13

```
SAMPLE SEARCH INITIATED 11:06:01 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     1200 TO ITERATE

100.0% PROCESSED     1200 ITERATIONS                                 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         21922 TO    26078
PROJECTED ANSWERS:                0 TO        0

L4            0 SEA SSS SAM L3

=> l3 full
FULL SEARCH INITIATED 11:06:04 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    23359 TO ITERATE

100.0% PROCESSED    23359 ITERATIONS                                1 ANSWERS
SEARCH TIME: 00.00.01

L5            1 SEA SSS FUL L3

=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                              179.28     179.49

FILE 'CAPLUS' ENTERED AT 11:06:07 ON 20 DEC 2008
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FILE COVERS 1907 - 20 Dec 2008  VOL 149 ISS 26
FILE LAST UPDATED: 19 Dec 2008  (20081219/ED)

Caplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/legal/infopolicy.html

=> l5
L6            1 L5
```
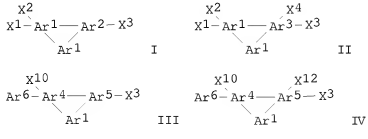

=> d ibib abs hitstr 1

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:324147 CAPLUS
DOCUMENT NUMBER: 142:392812
TITLE: Aromatic compounds having condensationable functional groups useful as monomers
INVENTOR(S): Kobayashi, Satoshi; Mikami, Satoshi
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: PCT Int. Appl., 91 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005033090	A1	20050414	WO 2004-JP15001	20041005
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005132829	A	20050526	JP 2004-292337	20041005
US 20070063190	A1	20070322	US 2006-574563	20060404
PRIORITY APPLN. INFO.:			JP 2003-346688 A	20031006
			WO 2004-JP15001 W	20041005

OTHER SOURCE(S): MARPAT 142:392812
GI



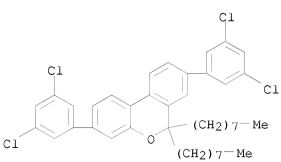
AB The present invention relates to aromatic compds. I, II, III, and IV, wherein Ar1, Ar3 = tetravalent aromatic hydrocarbon or tetravalent heterocyclic group; Ar2, Ar4, Ar5, Ar6, Ar7 = trivalent aromatic hydrocarbon or trivalent heterocyclic group; A1 = Z1, Z2Z3 or Z4:Z5; Z1, Z2, Z3 = O or S; Z4, Z5 = N, B, or P; and X1, X2, X3, X4, X9, X10, X11, X12 = halogen atom. Thus,

7.0 g 2,2',5,5'-tetramethoxy-1,1'-biphenyl was reacted with 6.8 g N-chlorosuccinimide, treated with boron tribromide, 4.8 g of the resulting 4,4'-dichloro-2,2',5,5'-tetrahydroxy-1,1'-biphenyl was treated with o-dichlorobenzene for 13 h to give 3,7-dichloro-2,8-dibenzofurandiol.

IT 849693-49-8P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(monomer; aromatic compds. having condensationable functional groups useful as monomers)

RN 849693-49-8 CAPLUS

CN 6H-Dibenzo[b,d]pyran, 3,8-bis(3,5-dichlorophenyl)-6,6-dioctyl- (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.41	185.90
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.80	-0.80

FILE 'REGISTRY' ENTERED AT 11:07:31 ON 20 DEC 2008
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STRUCTURE FILE UPDATES: 19 DEC 2008 HIGHEST RN 1087349-26-5
DICTIONARY FILE UPDATES: 19 DEC 2008 HIGHEST RN 1087349-26-5

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
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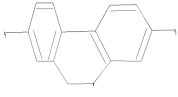
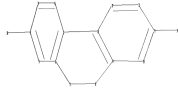




chain nodes :
15 16
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14
chain bonds :
4-16 13-15
ring bonds :
1-2 1-6 1-10 2-3 2-7 3-4 4-5 5-6 7-8 8-9 9-10 9-14 10-11 11-12 12-13 13-14

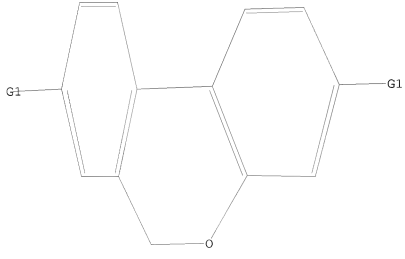
exact/norm bonds :
1-10 2-7 4-16 7-8 8-9 13-15
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-14 10-11 11-12 12-13 13-14

G1:Cb,Cy,Hy

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS

L7 STRUCTURE UPLOADED

=> d
L7 HAS NO ANSWERS
L7 STR



G1 Cb,Cy,Hy

Structure attributes must be viewed using STN Express query preparation.

=> 17
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SAMPLE SCREEN SEARCH COMPLETED - 33200 TO ITERATE

6.0% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 653103 TO 674897

PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7

=> 17 full
FULL SEARCH INITIATED 11:07:57 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 662509 TO ITERATE

95.6% PROCESSED 633240 ITERATIONS (1 INCOMPLETE) 11 ANSWERS

100.0% PROCESSED 662509 ITERATIONS (1 INCOMPLETE) 11 ANSWERS
SEARCH TIME: 00.00.25

L9 11 SEA SSS FUL L7

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 178.82 364.72

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY TOTAL SESSION
CA SUBSCRIBER PRICE 0.00 -0.80

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FILE COVERS 1907 - 20 Dec 2008 VOL 149 ISS 26
FILE LAST UPDATED: 19 Dec 2008 (20081219/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

http://www.cas.org/legal/infopolicy.html

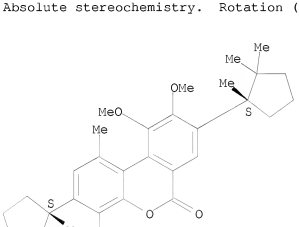
=> l9
L10 9 L9

=> d ibib abs hitstr 1-9

L10 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

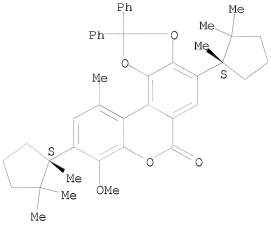
ACCESSION NUMBER: 2008:1383566 CAPLUS
DOCUMENT NUMBER: 149:555080
TITLE: The intramolecular Heck reaction
AUTHOR(S): Link, J. T.
CORPORATE SOURCE: Abbott Laboratories, Abbott Park, IL, USA
SOURCE: Organic Reactions (Hoboken, NJ, United States) (2002), 60, No pp. given
CODEN: ORHNBA
URL: http://www3.interscience.wiley.com/cgi-bin/mrwhome/107610747/HOME
PUBLISHER: John Wiley & Sons, Inc.
DOCUMENT TYPE: Journal; General Review; (online computer file)
LANGUAGE: English
AB A review of the article The intramol. Heck reaction.
IT 304859-78-7P 304859-85-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(The Intramol. Heck Reaction)
RN 304859-78-7 CAPLUS
CN 6H-Dibenzo[b,d]pyran-6-one, 4,9,10-trimethoxy-1-methyl-3,8-bis[(1S)-1,2,2-trimethylcyclopentyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 304859-85-6 CAPLUS
CN 6H-[1]Benzopyrano[4,3-e]-1,3-benzodioxol-6-one, 8-methoxy-11-methyl-2,2-diphenyl-4,9-bis[(1S)-1,2,2-trimethylcyclopentyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L10 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:212535 CAPLUS
DOCUMENT NUMBER: 144:301737
TITLE: Polymer luminescent material composition and polymer light-emitting devices
INVENTOR(S): Uetani, Yasunori; Shirasawa, Nobuhiko; Nakanishi, Hirotoshi
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: PCT Int. Appl., 82 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006025290	A1	20060309	WO 2005-JP15606	20050823
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
GB 2432838	A	20070606	GB 2007-5585	20050823
DE 112005002083	T5	20070719	DE 2005-112005002083	20050823
CN 101048465	A	20071003	CN 2005-80036762	20050823
JP 2006097008	A	20060413	JP 2005-250978	20050831
JP 2006169502	A	20060629	JP 2005-250979	20050831
KR 2007061840	A	20070614	KR 2007-707064	20070328
PRIORITY APPLN. INFO.:			JP 2004-251725 A	20040831

JP 2004-335575 A 20041119
WO 2005-JP15606 W 20050823
OTHER SOURCE(S): MARPAT 144:301737
GI

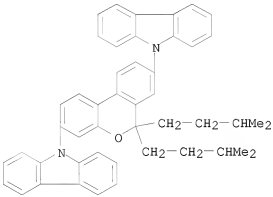
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A polymer luminescent material composition is characterized by comprising a polymer luminescent material and a compound selected from among compds. of the following general formulas I to IV: wherein X is an atom or atomic group forming a 5- or 6-membered ring together with the four carbon atoms constituting the 2 benzene rings; and Q and T are each independently H, halo, alkyl, alkyloxy, alkylthio, aryl, aryloxy, arylthio, arylalkyl, arylalkyloxy, arylalkylthio, alkenyl, alkynyl, arylalkenyl, arylalkynyl, substituted silyloxy, substituted silylthio, substituted silylamino, substituted amino, amido, an acid imide group, acyloxy, a monovalent heterocyclic group, heteroaryloxy, heteroarylthio, cyano, or nitro.

IT 878557-66-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(polymer luminescent material composition and polymer light-emitting devices)

RN 878557-66-5 CAPLUS

CN 9H-Carbazole, 9,9'-[6,6-bis(3-methylbutyl)-6H-dibenzo[b,d]pyran-3,8-diyl]bis- (CA INDEX NAME)



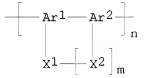
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:99991 CAPLUS
DOCUMENT NUMBER: 144:172274
TITLE: Polymeric compounds for thin polymer film devices
INVENTOR(S): Ueda, Masato
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: PCT Int. Appl., 72 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006011643	A1	20060202	WO 2005-JP14156	20050727
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
JP 2006063334	A	20060309	JP 2005-217025	20050727
DE 112005001823	T5	20070606	DE 2005-112005001823	20050727
GB 2432837	A	20070606	GB 2007-3688	20050727
GB 2432837	B	20080820		
CN 1989169	A	20070627	CN 2005-80025103	20050727
US 20080003422	A1	20080103	US 2007-572513	20070123
KR 2007047314	A	20070504	KR 2007-704336	20070223
PRIORITY APPLN. INFO.:			JP 2004-223441 A	20040730
			WO 2005-JP14156 W	20050727

GI



I

II

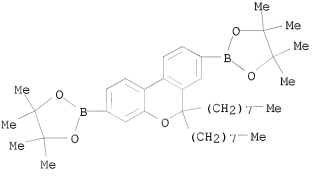
AB Title polymeric compds. with number average mol. weight 103-108 comprise repeating units I and II, wherein Ar1, Ar2 = independently trivalent aromatic hydrocarbon group or trivalent heterocyclic group; X1, X2 = independently O, S, C(:O), S(:O), or SO2 (X1 ≠ X2); Y = O or S; R9 = halogen, alkyl, or alkyloxy; m = 0 or 1; n, o = 1-6 integer; and p = 0-2 integer. Thus, 6.65 g 2,7-dibromofluorenone was dissolved in 140 mL 1:1 mixture of trifluoroacetic acid/chloroform, sodium perborate monohydrate was added therein, stirred for 20 h, 1.00 g of the resulting 3,8-dibromo-6H-dibenzo[b,d]pyran-6-one was stirred with octyl magnesium bromide, ring-closed with p-toluenesulfonic acid monohydrate, and reacted with bis(pinacolato)diborane to give 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-6H-dibenzo[b,d]pyran, 0.62 g of which was reacted with 0.29 g 5,5'-dibromo-2,2'-bithiophene in the presence of tetrakis(triphenylphosphine)palladium for 16.3 h to give a copolymer, 0.2%

solution of the resulting copolymer in chloroform was applied on a poly(3,4-ethylenedioxythiophene)/polystyrenesulfonic acid-coated ITO/glass plate, lithium fluoride, calcium, and aluminum were deposited thereon in this order to give a thin film device, showing short-circuit current 43 μA/cm2 and open circuit voltage 1.75 V.

IT 688013-75-4P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(monomer; polymeric compds. for thin polymer film devices)

RN 688013-75-4 CAPLUS

CN 6H-Dibenzo[b,d]pyran, 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)- (CA INDEX NAME)



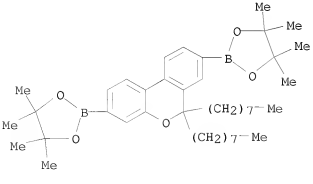
IT 874657-12-2P 874657-15-5P
RL: DEV (Device component use); IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polymeric compds. for thin polymer film devices)

RN 874657-12-2 CAPLUS

CN 6H-Dibenzo[b,d]pyran, 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-, polymer with 5,5'-dibromo-2,2'-bithiophene (9CI) (CA INDEX NAME)

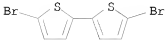
CM 1

CRN 688013-75-4
CMF C41 H64 B2 O5



CM 2

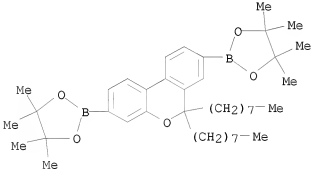
CRN 4805-22-5
CMF C8 H4 Br2 S2



RN 874657-15-5 CAPLUS
CN 6H-Dibenzo[b,d]pyran, 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-, polymer with 2,2'-(1,2-ethenediyl)bis[5-bromothiophene] (9CI) (CA INDEX NAME)

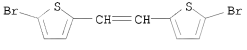
CM 1

CRN 688013-75-4
CMF C41 H64 B2 O5



CM 2

CRN 374684-22-7
CMF C10 H6 Br2 S2



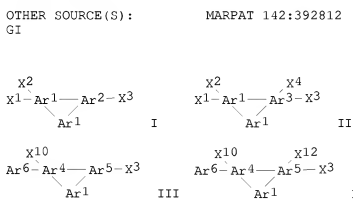
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:324147 CAPLUS
DOCUMENT NUMBER: 142:392812
TITLE: Aromatic compounds having condensationable functional

groups useful as monomers
INVENTOR(S): Kobayashi, Satoshi; Mikami, Satoshi
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: PCT Int. Appl., 91 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005033090	A1	20050414	WO 2004-JP15001	20041005
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005132829	A	20050526	JP 2004-292337	20041005
US 20070063190	A1	20070322	US 2006-574563	20060404
PRIORITY APPLN. INFO.:			JP 2003-346688 A	20031006
			WO 2004-JP15001 W	20041005

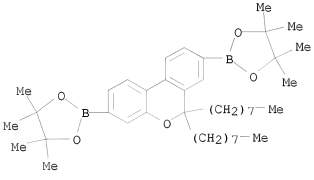
OTHER SOURCE(S): MARPAT 142:392812
GI



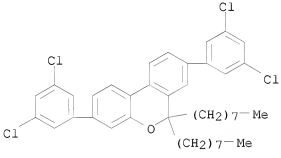
AB The present invention relates to aromatic compds. I, II, III, and IV, wherein Ar1, Ar3 = tetravalent aromatic hydrocarbon or tetravalent heterocyclic group; Ar2, Ar4, Ar5, Ar6, Ar7 = trivalent aromatic hydrocarbon or trivalent heterocyclic group; A1 = Z1, Z2Z3 or Z4:Z5; Z1, Z2, Z3 = O or S; Z4, Z5 = N, B, or P; and X1, X2, X3, X4, X9, X10, X11, X12 = halogen atom. Thus, 7.0 g 2,2',5,5'-tetramethoxy-1,1'-biphenyl was reacted with 6.8 g N-chlorosuccinimide, treated with boron tribromide, 4.8 g of the resulting 4,4'-dichloro-2,2',5,5'-tetrahydroxy-1,1'-biphenyl was treated with o-dichlorobenzene for 13 h to give 3,7-dichloro-2,8-dibenzofurandiol.

IT 688013-75-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(aromatic compds. having condensationable functional groups useful as monomers)

RN 688013-75-4 CAPLUS
CN 6H-Dibenzo[b,d]pyran, 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)- (CA INDEX NAME)



IT 849693-49-8P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(monomer; aromatic compds. having condensationable functional groups useful as monomers)
RN 849693-49-8 CAPLUS
CN 6H-Dibenzo[b,d]pyran, 3,8-bis(3,5-dichlorophenyl)-6,6-dioctyl- (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:1128942 CAPLUS
DOCUMENT NUMBER: 142:82001
TITLE: Color conversion film for organic electroluminescent device
INVENTOR(S): Iimura, Kiyotoshi; Doi, Shuji
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004362910	A	20041224	JP 2003-159000	20030604
PRIORITY APPLN. INFO.:			JP 2003-159000	20030604

AB The invention relates to a color conversion film, suited for use in an organic electroluminescent device, comprising a fluorescent and/or phosphorescent conjugated polymer.

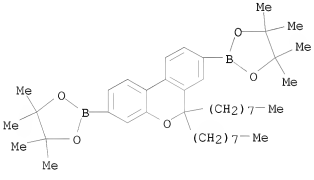
IT 811819-84-8
RL: DEV (Device component use); USES (Uses)
(color conversion film for organic electroluminescent device)

RN 811819-84-8 CAPLUS

CN 2,1,3-Benzothiadiazole, 4,7-bis(5-bromo-4-hexyl-2-thienyl)-, polymer with 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-6H-dibenzo[b,d]pyran (9CI) (CA INDEX NAME)

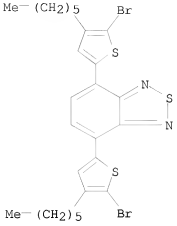
CM 1

CRN 688013-75-4
CMF C41 H64 B2 O5



CM 2

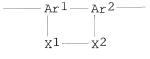
CRN 444579-39-9
CMF C26 H30 Br2 N2 S3

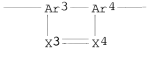


L10 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:392502 CAPLUS
DOCUMENT NUMBER: 140:415047
TITLE: High-molecular compounds and polymer light-emitting devices made by using the same
INVENTOR(S): Doi, Shuji; Kobayashi, Satoshi; Noguchi, Takanobu
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: PCT Int. Appl., 131 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004039859	A1	20040513	WO 2003-JP12697	20031003
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2004168999	A	20040617	JP 2003-343244	20031001
AU 2003268752	A1	20040525	AU 2003-268752	20031003
EP 1571170	A1	20050907	EP 2003-748697	20031003
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 20080138651	A1	20080612	US 2005-532937	20050428
PRIORITY APPLN. INFO.:			JP 2002-315516 A	20021030
			WO 2003-JP12697 W	20031003

OTHER SOURCE(S): MARPAT 140:415047
GI





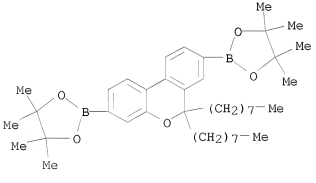
II

AB The invention relates to a high-mol. compds. comprising repeating units represented by the general formula I or II and having number-average mol. wts. of 103-108 in terms of polystyrene: (1) [wherein Ar1 and Ar2 are each independently a trivalent aromatic hydrocarbon group or a trivalent heterocyclic group; and X1 and X2 are each independently O, S, C(= O), S(= O), SO2, C(R1)(R2), Si(R3)(R4), N(R5), B(R6), P(R7), or P(= O)(R8), with the provisos that X1 and X2 must not be the same and that X1 and Ar2 are bonded resp. to the adjacent carbon atoms constituting the aromatic ring of Ar1, and X2 and Ar1 are bonded resp. to the adjacent carbon atoms constituting the aromatic ring of Ar2] (2) [wherein Ar3 and Ar4 are each independently a trivalent aromatic hydrocarbon group or a trivalent heterocyclic group; and X3 and X4 are each independently N, B, P, C(R9), or Si(R10), with the provisos that X3 and X4 must not be the same and that X3 and Ar4 are bonded resp. to the adjacent carbon atoms constituting the aromatic ring of Ar3, and X4 and Ar3 are bonded resp. to the adjacent carbon atoms constituting the aromatic ring of Ar4].

IT 688013-75-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(high-mol. compds. and polymer light emitting devices made by using the same)

RN 688013-75-4 CAPLUS

CN 6H-Dibenzo[b,d]pyran, 6,6-dioctyl-3,8-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2001:848926 CAPLUS
DOCUMENT NUMBER: 136:119162

TITLE: Preparation and characterization of a new solvent-free polymer electrolyte based on spiroketal structure
AUTHOR(S): Tsutsumi, Hiromori; Shirotani, Rumiko; Onimura, Kenjiro; Oishi, Tsutomu
CORPORATE SOURCE: Department of Applied Chemistry and Chemical Engineering, Faculty of Engineering, Yamaguchi University, Yamaguchi, 755-8611, Japan
SOURCE: Electrochemical and Solid-State Letters (2001), 4(12), A195-A196
CODEN: ESLEF6; ISSN: 1099-0062
PUBLISHER: Electrochemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Solvent-free solid polymer electrolytes based on spiropolymers were prepared and their properties were confirmed by conductance, differential scanning calorimetry, and X-ray diffraction measurements. The spiropolymer was synthesized from the bicyclic diketone and pentaerythritol. The spiro-polyketal (SP) dissolves lithium perchlorate and the conductivity of the (SP)1.5(LiClO4)1 complex is 4.24 + 10-5 S cm-1 at 30° and 3.83 + 10-4 S cm-1 at 60°.
IT 391671-11-7P
RL: POF (Polymer in formulation); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(preparation and characterization of a new solvent-free polymer electrolyte based on spiroketal structure)
RN 391671-11-7 CAPLUS
CN Poly(3''a,6''a-diethyltetrahydrodispiro[1,3-dioxane-5,5'-[1,3]dioxane-2',2''(1''H)-pentalene]-2,5''(3''H)-diylidene) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2000:621158 CAPLUS
DOCUMENT NUMBER: 133:350356
TITLE: Nondynamic and Dynamic Kinetic Resolution of Lactones with Stereogenic Centers and Axes: Stereoselective Total Synthesis of Herbertenediol and Mastigophorenes A and B
AUTHOR(S): Bringmann, Gerhard; Pabst, Thomas; Henschel, Petra; Kraus, Juergen; Peters, Karl; Peters, Eva-Maria; Rycroft, David S.; Connolly, Joseph D.
CORPORATE SOURCE: Institut fuer Organische Chemie, Universitaet Wuerzburg, Wuerzburg, D-97074, Germany
SOURCE: Journal of the American Chemical Society (2000), 122(38), 9127-9133
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 133:350356
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

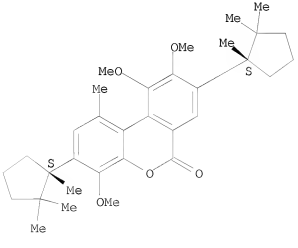
AB The stereoselective total synthesis of the sesquiterpene herbertenediol and of its naturally occurring dimers, mastigophorenes A [(P)-I] and B [(M)-isomer], is described. Following the "lactone concept", the configuration at the biaryl axis was atropo-divergently induced to be P or, optionally, M, by stereocontrolled reductive ring cleavage (diastereomeric ratio up to 97:3) of the configurationally unstable joint biaryl lactone precursor II using the oxazaborolidine-borane system, through dynamic kinetic resolution Mechanistic considerations of the lactone coupling suggested interference by a methoxy group next to the halogen substituent and led to an improvement of the coupling yield from 39 to 87% to give the lactone III. As a new, likewise highly efficient variant of the lactone method, we report for the first time the-now nondynamic-kinetic resolution of a structurally related, but centrochiral "aliphatic-aromatic" lactone, (rac)-IV. Its highly efficient (krel > 300) enantiomer-differentiating Corey-Bakshi-Shibata reduction delivers the centrochiral building block (R,R)-IV in good chemical yield and with excellent stereochem. purity (enantiomeric excess > 99.9%; enrichment of the starting material). The new synthesis of natural herbertenediol confirms its absolute stereostructure as well as that of its dimers, mastigophorenes A and B.

IT 304859-78-7P 305846-95-1P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(nondynamic and dynamic kinetic resolution of lactones with stereogenic centers and axes in stereoselective total synthesis of herbertenediol and mastigophorenes A and B)

RN 304859-78-7 CAPLUS

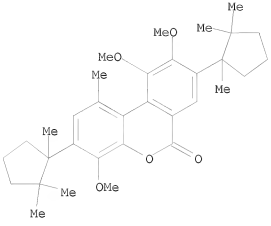
CN 6H-Dibenzo[b,d]pyran-6-one, 4,9,10-trimethoxy-1-methyl-3,8-bis[(1S)-1,2,2-trimethylcyclopentyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



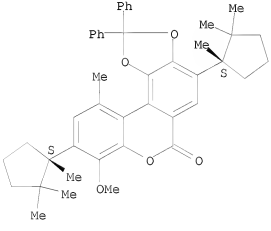
RN 305846-95-1 CAPLUS

CN 6H-Dibenzo[b,d]pyran-6-one, 4,9,10-trimethoxy-1-methyl-3,8-bis[(1S)-1,2,2-trimethylcyclopentyl]-, (3S)- (9CI) (CA INDEX NAME)



IT 304859-85-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(nondynamic and dynamic kinetic resolution of lactones with stereogenic centers and axes in stereoselective total synthesis of herbertenediol and mastigophorenes A and B)
RN 304859-85-6 CAPLUS
CN 6H-[1]Benzopyrano[4,3-e]-1,3-benzodioxol-6-one, 8-methoxy-11-methyl-2,2-diphenyl-4,9-bis[(1S)-1,2,2-trimethylcyclopentyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

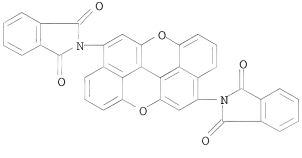
L10 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1933:47144 CAPLUS
DOCUMENT NUMBER: 27:47144
ORIGINAL REFERENCE NO.: 27:4229f-i

TITLE: Dinaphthylene dioxide. II
AUTHOR(S): Pummerer, Rudolf; Rieche, Alfred; v. Krudener, Georg; Pfeiffer, Hans; Prell, Ernst; Tuchmann, Walter; Wilsing, Heinrich
SOURCE: Annalen der Chemie, Justus Liebigs (1933), 503, 40-60
CODEN: 9X224Y
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB cf. C. A. 21, 405. Oxidation of dinaphthylene dioxide (I) with Caro acid in concentrated H_2SO_4 gives 4,4'-dinaphthone dioxide (II), red-brown, sublimes about 320° but is not melted at 400°; in alkaline hyposulfite there results the Na salt of the 4,4'-di-HO derivative of I, which furnishes a convenient method of purifying II. II also results with CrO_3 in AcOH. II in C_5H_5N, AcOH and Zn, warmed until the solution is green and then treated with Ac_2O, gives the di-Ac derivative of the hydroquinone, $C_{24}H_{14}O_6$ yellow. I and Bz_2O_2 in C_6H_6 at 60° give a mixture of about 27% of the mono-(III) and 73% of di-benzoxy derivs. (IV), separated by extraction of III with PhCl; III, m. 237°, on alkaline saponification gives the 4-HO derivative of I, yellow (acetate, yellow, sublimes 230°); IV was crystallized from $C_6H_3Cl_3$; it also results from III and Bz_2O_2. III and IV in concentrated H_2SO_4 give II. II and (m-$O_2NC_6H_4)_2O_2$ in C_6H_6 give the bis-nitrobenzoate, light brown; the bis-α-naphthoate darkens 180°. 4,2-H_2NClOH_6OH and $C_6H_4(CO)_2O$ give 86% of 4-phthalimido-2-naphthol (V), m. 242°; PbO_2 in PhCl gives 90% of 4,4'-bisphthalimido-1,1'-binaphthol-(2,2'), yellow; Ag_2O in boiling $PhNO_2$ gives a small yield of 4,4'-bisphthalimidodinaphthylene dioxide (VI), yellow. Heating V with CuO in $PhNO_2$ gives 40% of the dioxide; the binaphthol gives a poorer yield; VI is purified by sublimation between 390-420° and begins to carbonize at 430°. VI and MeOH-KOH give 58% of II.

IT 854868-82-9P, peri-Xanthenoxanthene, 4,10-diphthalimido-
RL: PREP (Preparation)
(preparation of)

RN 854868-82-9 CAPLUS
CN peri-Xanthenoxanthene, 4,10-diphthalimido- (3CI) (CA INDEX NAME)



=> log h

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FULL ESTIMATED COST	47.83	412.55

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL

	ENTRY	SESSION
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FULL ESTIMATED COST	47.83	412.55

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FULL ESTIMATED COST	47.83	412.55

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DICTIONARY FILE UPDATES: 19 DEC 2008 HIGHEST RN 1087349-26-5

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=>
Uploading C:\Program Files\Stnexp\Queries\10574563\Struc 4.str

chain nodes :
2 6
ring nodes :
3 5 7
chain bonds :
2-3 5-6
ring bonds :
3-5 3-7 5-7
exact/norm bonds :
2-3 3-5 3-7 5-6 5-7

G1:Cb,Cy,Hy

Match level :
2:CLASS 3:CLASS 5:CLASS 6:CLASS 7:Atom

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L11     STRUCTURE UPLOADED

=> d
L11 HAS NO ANSWERS
L11                 STR
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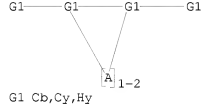


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G1 Cb,Cy,Hy


Structure attributes must be viewed using STN Express query preparation.


=> l11
GENERIC GROUP NOT VALID HERE
Generic groups may not be used in these circumstances:

       1.  Any generic group node (e.g., Hy) in a ring.
       2.  An Ak node attached to another Ak node.
       3.  An Ak node with three or more attachments where
           one or more of the attachments is to a C node.

=> log h
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.92     413.47

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                     0.00      -8.00

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